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	Application No.	Applicant(s)	
Notice of Allowability	10/726,515	SONG ET AL.	
	Examiner	Art Unit	
	· Geoffrey Mruk	2853	
	Geomey wildk	2003	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not include nication will be mailed in due of	ed course. THIS
1. X This communication is responsive to the arguments dated	9 February 2006.		
2. The allowed claim(s) is/are 1-11,38 and 39.			•
3. ☑ Acknowledgment is made of a claim for foreign priority under the last of the start of the		or (f).	
 ☐ Certified copies of the priority documents have been received. ☐ Certified copies of the priority documents have been received in Application No 			
Copies of the certified copies of the priority documents have been received in this national stage application from the			
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the req	uirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) \square including changes required by the Notice of Draftspers	on's Patent Drawing Review	(PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
A.			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 D Notice of Inf	ormal Patent Application (PTC	1_152\
Notice of Preferences Great (170-032) Notice of Draftperson's Patent Drawing Review (PTO-948)	· · · · ·	ımmary (PTO-413),	J-102)
	Paper No./I	Mail Date	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	08), 7. ∐ Examiner's .	Amendment/Comment	
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛭 Examiner's	Statement of Reasons for Allo	wance
	9. 🗌 Other	. 1	
		STEPHEN MEIER	
	SUP	ERVISORY PATENT EXAM	INER

Art Unit: 2853

DETAILED ACTION

Drawings

The drawings dated 4 December 2003 are accepted.

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The primary reasons for allowance for claims 1-11 is that applicant's claimed invention includes a monolithic ink-jet printhead having a substrate having an ink chamber to be supplied with ink to be ejected, a manifold for supplying ink to the ink chamber, and an ink channel for providing communication between the ink chamber and the manifold; a nozzle plate including a plurality of passivation layers sequentially stacked on the substrate, a metal layer formed on the plurality of passivation layers, and a nozzle. through which ink is ejected from the ink chamber, that penetrates the nozzle plate; a heater provided between adjacent passivation layers of the plurality of passivation layers, the heater being located above the ink chamber for heating ink within the ink chamber; a conductor provided between adjacent passivation layers of the plurality of passivation layers, the conductor being electrically connected to the heater for applying a current to the heater; and a hydrophobic coating layer formed directly and exclusively on an outer surface of the metal layer. It is this limitation, expressed in the claimed combination not found, taught, or suggested in the prior art that makes these claims allowable over the prior art.

The primary reasons for allowance for claims 38 and 39 is that applicant's claimed invention includes a an ink-jet printhead, having a nozzle; an ink chamber disposed below the nozzle, the ink chamber having an inlet and an outlet, the outlet in communication with the nozzle; a heater disposed directly above and proximate to the ink chamber, the heater configured to heat ink in the ink chamber, and a plurality of layers disposed on the heater, the plurality of layers including, in sequence: an insulation layer disposed on the heater and directly above the heater; a first metal layer disposed on the insulation layer and directly above the heater; a second metal layer disposed on the first metal layer and directly above the heater; and a hydrophobic layer disposed on the second metal layer and directly above the heater. It is this limitation, expressed in the claimed combination not found, taught, or suggested in the prior art that makes these claims allowable over the prior art.

The examiner makes of record that the previous claim objections dated 14 November 2005 are withdrawn in view of applicant's arguments.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey Mruk whose telephone number is 571 272-2810. The examiner can normally be reached on 7am - 330pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GSM 4/21/2006

> STEPHEN MEIER SUPERVISORY PATENT EXAMINER